

Serial No. 10/747,945
Amdt. dated April 21, 2009
Reply to Office Action of January 22, 2009

Docket No. HI-0177

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An iris recognition camera, comprising:
 - a driving barrel configured to support a single alignment of at least one lens, a relative position of which is fixed, the single alignment of the at least one lens being configured to serve as a wide-angle lens at all times;
 - a moving device comprising a single drive motor configured to reciprocatingly move the driving barrel to perform both focus and zoom operations at the same time; and
 - a position sensor configured to detect a position of the driving barrel within the camera.

2. (Previously Presented) The iris recognition camera according to claim 1, wherein the moving device comprises:
 - the single drive motor;
 - a lead screw connected to the motor at one end; and
 - a rack coupled to an outer circumference of the lead screw.

3. (Previously Presented) The iris recognition camera according to claim 2, wherein the drive motor comprises a step motor.
4. (Previously Presented) The iris recognition camera according to claim 1, wherein the driving barrel is provided at one side with a detecting portion configured to communicate with the position sensor so that the position sensor detects a position of the driving barrel.
5. (Canceled).
6. (Currently Amended) The iris recognition camera according to claim 5, wherein the ~~single alignment of at least one wide-angle~~ lens has a focusing distance of 11.8+-.1 mm.
7. (Previously Presented) The iris recognition camera according to claim 1, further comprising one or more guide bars configured to guide the driving barrel during reciprocating movement.
8. (Previously Presented) The iris recognition camera according to claim 7, wherein the one or more guide bars comprises a pair of guide bars, respectively, positioned on opposite sides of the driving barrel.

9. (Previously Presented) The iris recognition camera according to claim 1, wherein the position sensor is positioned behind the lens.
10. (Currently Amended) The iris recognition camera according to claim 1, wherein the single alignment of at least one lens has an image pickup distance range of 20-70 cm.
11. (Previously Presented) The iris recognition camera according to claim 1, wherein the position sensor comprises one of an optical sensor and a contact sensor.
12. (Previously Presented) An iris recognition system comprising the iris recognition camera of claim 1.
- 13.-19. (Canceled).
20. (Currently Amended) A method of operation for an iris recognition camera, comprising:
- detecting a user;
 - moving via a moving device comprising a single drive motor a camera lens of the iris recognition camera to an initial position detected by a position sensor after the position sensor detects the user;

thereafter reciprocatingly moving via the moving device comprising the single drive motor the camera lens to perform both focus and zoom operations from the initial position to an image pickup location where a user's iris can be captured; and

performing the image pickup using an image pickup device, wherein the lens has a single alignment of at least one lens, a relative position of which is fixed, the single alignment of the at least one lens being configured to serve as a wide-angle lens at all times.

21. (Canceled).

22. (Previously Presented) The method according to claim 20, wherein the image pickup device comprises a charge-coupled device.

23. (Previously Presented) The method according to claim 20, wherein the driving motor comprises a step motor.

24. (Previously Presented) The method according to claim 20, wherein the iris recognition camera further comprises a power transmission configured to transmit power for moving the camera lens.

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25. (Previously Presented) The method according to claim 24, wherein the power transmission device includes a lead screw configured to be rotated by power from the drive motor, and rack screw-coupled to an outer circumference of lead screw.

26.-29. (Canceled).